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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: RTSP-0265  
Inventors: Monia et al.  
Serial No.: 10/019,595  
Filing Date: December 26, 2001  
Examiner: Not Yet Assigned  
Group Art Unit: Not Yet Assigned  
Title: Antisense Modulation of MEKK5 Expression

I, Jane Massey Licata, Registration No. 32,257, certify that this correspondence is being depositing with the U.S. Postal Service as First Class mail in an envelope addressed to the Assistant Commissioner for Patents and Trademarks, Washington, D.C. 20231.

On this date: March 20, 2002

Jane Massey Licata  
Jane Massey Licata, Registration No. 32,257

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

#### INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

(XX) In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as

set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.

- ( ) In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, therefore:

- ( ) Certification in Accordance with §1.97(e) is set forth below; or

- ( ) The fee of \$180.00 as set forth in §1.17(p) is attached.

- ( ) In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); Petition Requesting Consideration of the Information Disclosure Statement; and the fee of \$130.00 as set forth in §1.17(i)(1).

- ( ) Copies of each of the references listed on the attached Form PTO-1449 (modified) are enclosed herewith.

- (~~XX~~) In accordance with §1.98(d), copies of some or all of the references listed on the attached Form PTO-1449 (modified) are not enclosed herewith because they were previously submitted to the U.S. Patent and Trademark Office in prior

application Serial No. 09/359,757, filed July 23, 1999, for which a claim for priority under 35 U.S.C. §120 has been made in the instant application.

Please charge any deficiency or credit any overpayment to Deposit Account No. 50-1619. This form is submitted in duplicate.

( ) The relevance of the listed references in a foreign language is as stated in the specification at pages @@.

(**xx**) All listed references are in the English language.

Respectfully submitted,

*Jane Massey Licata*

Jane Massey Licata  
Registration No. 32,257

Date: March 20, 2002

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Sheet 03 of 03

Form PTO-1449 Modified  List of Patents and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office	Docket No. RTSP-0265	Serial No. 10/019,595
	Applicant Brett P. Monia et al.	
	Filing Date December 26, 2001	Group Not Yet Assigned

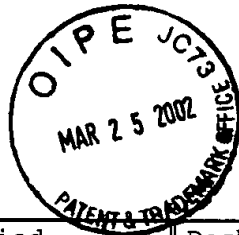
U. S. PATENT DOCUMENTS

Examiner		Document	Date	Name	Class	Subclass
	AA	6,080,546	6-27-00	Monia et al.	435	6

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation YES                  NO	

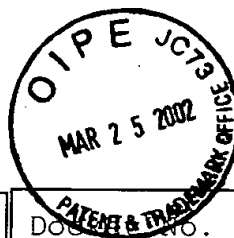
EXAMINER	DATE CONSIDERED
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#6

Sheet 01 of 03

Form PTO-1449 Modified		Docket No. RTSP-0265	Serial No. 10/019,595
List of Patents and Publications Cited by Application (Use several sheets if necessary)		Applicant Brett P. Monia et al.	
		Filing Date December 26, 2001	Group Not Yet Assigned
U.S. Department of Commerce Patent and Trademark Office			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AA	Chang et al., Activation of apoptosis signal-regulating kinase 1 (ASK1) by the adapter protein Daxx, Science, 1998, 281:1860-1863	
	AB	Funato et al., Evidence for apoptosis signal-regulating kinase 1 in the regenerating palatal epithelium upon acute injury, Lab. Invest., 1998, 78:477-483	
	AC	Gotoh et al., Reactive oxygen species- and dimerization-induced activation of apoptosis signal-regulating kinase 1 in tumor necrosis factor-alpha signal transduction, J. Biol. Chem., 1998, 273:17477-17482	
	AD	Ichijo et al., Induction of apoptosis by ASK1, a mammalian MAPKKK that activates SAPK/JNK and p38 signaling pathways, Science, 1997, 275:90-94	
	AE	Moriguchi et al., Roles of the MAP kinase cascade in vertebrates, Adv. Pharmacol., 1996, 36:121-137	
	AF	Nishitoh et al., ASK1 is essential for JNK/SAPK activation by TRAF2 [In Process Citation], Mol. Cell., 1998, 2:389-395	
	AG	Saitoh et al., Mammalian thioredoxin is a direct inhibitor of apoptosis signal-regulating kinase (ASK) 1, Embo. J., 1998, 17:2596-2606	
	AH	Su et al., Mitogen-activated protein kinase cascades and regulation of gene expression, Curr. Opin. Immunol., 1996, 8:402-411	
	AI	Wang et al., Molecular cloning and characterization of a novel protein kinase with a catalytic domain homologous to mitogen-activated protein kinase kinase, J. Biol. Chem., 1996, 271:31607-31611	
EXAMINER		DATE CONSIDERED	



Sheet 02 of 03

## Form PTO-1449 Modified

List of Patents and Publications  
Cited by Applicant  
(Use several sheets if necessary)

U.S. Department of Commerce

Doc. No.  
RTSP-0265

Serial No.  
10/019,595

Applicant  
Brett P. Monia et al.

Filing Date  
December 26, 2001

Group  
Not Yet Assigned

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AJ	Agrawal S., "Antisense oligonucleotides: towards clinical trials", <i>TIBCH</i> 1996 14:376-387
	AK	Branch A.D., "A good antisense molecule is hard to find", <i>TIBS</i> 1998 45-50
EXAMINER		DATE CONSIDERED